

### AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in this application.

#### Listing of the Claims:

1. (Currently amended) A process for preparing tricyclodecanedialdehyde ~~by comprising~~ hydroformylation of dicyclopentadiene ~~by means of~~ with a CO/H<sub>2</sub> mixture at elevated temperature and under superatmospheric pressure in the presence of a rhodium catalyst, which has not been modified by means of a ligand and is homogeneously dissolved in the hydroformylation medium, wherein the hydroformylation is carried out at a pressure of from 200 to 350 bar in at least two reaction zones, with a reaction temperature of from 80 to 120°C ~~being set~~ in a first reaction zone and a reaction temperature of from 120 to 150°C ~~being set in a reaction zone following this~~ in a subsequent reaction zone, with the proviso that the reaction temperature in the subsequent reaction zone is at least 5°C higher than in the ~~preceding first~~ subsequent reaction zone.

2. (Original) The process according to claim 1, wherein the hydroformylation is carried out at a concentration of the rhodium catalyst, calculated as Rh, of from 2 to 20 ppm by weight in the hydroformylation medium.

3. (Currently amended) The process according to claim 1 ~~or 2~~, wherein the hydroformylation is carried out at a reaction temperature of from 105 to 115°C in the first reaction zone and at a reaction temperature of from 130 to 140°C in the subsequent reaction zone.

4. (Currently amended) The process according to ~~any of claims 1 to 3~~ claim 1, wherein the hydroformylation is carried out in two reaction zones.

5. (Currently amended) The process according to ~~any of claims 1 to 4~~ claim 1, wherein the reaction temperature in the subsequent reaction zone is at least 15°C higher than in the first reaction zone ~~preceding it~~.

6. (Currently amended) A process for preparing tricyclodecanedimethanol ~~by~~ comprising:

hydroformylation of dicyclopentadiene ~~by means of~~ with a CO/H<sub>2</sub> mixture at elevated temperature and under superatmospheric pressure in the presence of a rhodium catalyst which has not been modified by means of a ligand and is homogeneously dissolved in the hydroformylation medium to form tricyclodecanedialdehyde, ~~subsequent separation of~~ separating the rhodium catalyst from the tricyclodecanedialdehyde, and

hydrogenation of the tricyclodecanedialdehyde ~~by means of~~ with a gas comprising molecular hydrogen at elevated temperature and under superatmospheric pressure over a heterogeneous catalyst, wherein the hydroformylation is carried out at a pressure of from 200 to 350 bar in at least two reaction zones, with a reaction temperature of from 80 to 120°C ~~being set~~ in a first reaction zone and a reaction temperature of from 120 to 150°C ~~being set~~ in a subsequent reaction zone ~~following this reaction zone~~, with the proviso that the reaction temperature in the subsequent reaction zone is at least 5°C higher than in the ~~preceding~~ first reaction zone.

7. (Currently amended) A process for preparing diaminomethyltricyclodecane by comprising:

hydroformylation of dicyclopentadiene ~~by means of~~ with a CO/H<sub>2</sub> mixture under superatmospheric pressure and at elevated temperature in the presence of a rhodium catalyst which has not been modified by means of a ligand and is homogeneously dissolved in the hydroformylation medium, ~~subsequent separation of~~ separating the rhodium catalyst from the tricyclodecanedialdehyde and reductive amination of the tricyclodecanedialdehyde at elevated temperature and under superatmospheric pressure over a heterogeneous catalyst in the presence of a gas comprising molecular hydrogen and ammonia, wherein the hydroformylation is carried out at a pressure of from 200 to 350 bar in at least two reaction zones, with a reaction temperature of from 80 to 120°C ~~being set~~ in a first reaction zone and a reaction temperature of from 120 to 150°C ~~being set~~ in a subsequent reaction zone ~~following this reaction zone~~, with the proviso that the reaction temperature in the subsequent reaction zone is at least 5°C higher than in the ~~preceding~~ first reaction zone.

8. (New) The process according to claim 6, wherein the hydroformylation is carried out at a concentration of the rhodium catalyst, calculated as Rh, of from 2 to 20 ppm by weight in the hydroformylation medium.

9. (New) The process according to claim 6, wherein the hydroformylation is carried out at a reaction temperature of from 105 to 115°C in the first reaction zone and at a reaction temperature of from 130 to 140°C in the subsequent reaction zone.

10. (New) The process according claim 6, wherein the reaction temperature in the subsequent reaction zone is at least 15°C higher than in the first reaction zone.

11. (New) The process according to claim 7, wherein the hydroformylation is carried out at a concentration of the rhodium catalyst, calculated as Rh, of from 2 to 20 ppm by weight in the hydroformylation medium.

12. (New) The process according to claim 7, wherein the hydroformylation is carried out at a reaction temperature of from 105 to 115°C in the first reaction zone and at a reaction temperature of from 130 to 140°C in the subsequent reaction zone.

13. (New) The process according to claim 7, wherein the reaction temperature in the subsequent reaction zone is at least 15°C higher than in the first reaction zone.

14. (New) The process according to claim 1, wherein the rhodium catalyst is formed under the conditions of the hydroformylation reaction from rhodium (III) salts, rhodium (III) oxide, rhodium (III) sulfide or salts of oxo acids of rhodium.

15. (New) The process according to claim 6, wherein the rhodium catalyst is formed under the conditions of the hydroformylation reaction from rhodium (III) salts, rhodium (III) oxide, rhodium (III) sulfide or salts of oxo acids of rhodium.

16. (New) The process according to claim 7, wherein the rhodium catalyst is formed under the conditions of the hydroformylation reaction from rhodium (III) salts, rhodium (III) oxide, rhodium (III) sulfide or salts of oxo acids of rhodium.

17. (New) The process according to claim 1, wherein the CO/H<sub>2</sub> mixture comprise a molar ratio CO:H<sub>2</sub> of from 39:61 to 41:59.

18. (New) The process according to claim 6, wherein the CO/H<sub>2</sub> mixture comprise a molar ratio CO:H<sub>2</sub> of from 39:61 to 41:59.

19. (New) The process according to claim 7, wherein the CO/H<sub>2</sub> mixture comprise a molar ratio CO:H<sub>2</sub> of from 39:61 to 41:59.